

SACB-6/12-C SCO - Distributor box

1516878

<https://www.phoenixcontact.com/us/products/1516878>



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Distributor box, application: Standard, extended requirements, connection method: M12 socket Metal, number of slots: 6, number of positions: 5, coding: A, slot assignment: Double, status display: no, Universal; master cable connection: Pluggable screw connection 180°, shielding: no

Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Save space: distributor box with double occupancy for two sensors in one slot
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly

Commercial data

Item number	1516878
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF42
Product key	AF3CCD
GTIN	4017918967604
Weight per piece (including packing)	313.8 g
Weight per piece (excluding packing)	266.08 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Note regarding documentation	For details about the PCB connectors used, refer to the technical data for MC 1,5/10-STF-3,5 (1847204)
Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
Note on application	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

Product properties

Product type	Distributor box
Application	Standard, extended requirements
Number of positions	5
Number of slots	6
Coding	A
LED	no

Electrical properties

Max. operating voltage U_{max}	135 V
Nominal voltage U_N	120 V AC
	120 V DC
Rated current, total	10 A
	2x 8 A (For electrical isolation)
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

Connection data

Conductor connection

Sensor/actuator connection system	M12 socket
Conductor cross section Flexible signal line	0.14 mm ² ... 1.5 mm ²
Conductor cross section Flexible power supply	0.14 mm ² ... 1.5 mm ²
Connection cross section AWG Flexible signal line	26 ... 16
Connection cross section AWG Flexible power supply	26 ... 16
Stripping length Signal line	7 mm
Stripping length of the sheath	50 mm (Master cable)
Tightening torque, cover screw	0.35 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm
Tightening torque, union nut	2.5 Nm

Connection assignment

1 / 4 (A) = 1 / 4

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Slot/position = Wire color or connection	1 / 2 (B) = 1 / 2
	2 / 4 (A) = 2 / 4
	2 / 2 (B) = 2 / 2
	3 / 4 (A) = 3 / 4
	3 / 2 (B) = 3 / 2
	4 / 4 (A) = 4 / 4
	4 / 2 (B) = 4 / 2
	5 / 4 (A) = 5 / 4
	5 / 2 (B) = 5 / 2
	6 / 4 (A) = 6 / 4
	6 / 2 (B) = 6 / 2
	1-6 / 1 (+ 120 V) = U_N
	1-6 / 3 (0 V) = 0 V
	1-6 / 5 (PE) = PE

Signaling

Status display present	no
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Dimensions

Dimensional drawing	
Width	58 mm
Height	45 mm
Length	126 mm

Material specifications

Material Threaded sleeve	Die-cast zinc
Material Housing	PBT
Material Molding compound	PUR
Flammability rating according to UL 94	V0
Seal material O-ring	NBR
Contact material	Cu alloy
Contact surface material	gold-plated
Contact carrier material	PA
Material of contact, master cable side	CU alloy
Material of the contact carrier on the master cable side	PA 6.6 V0
Material of contact surface, master cable side	gold-plated

Cable/line

External cable diameter	7 mm ... 12 mm
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Connection method	Pluggable screw connection
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67 IP69K
Ambient temperature (operation)	-30 °C ... 80 °C

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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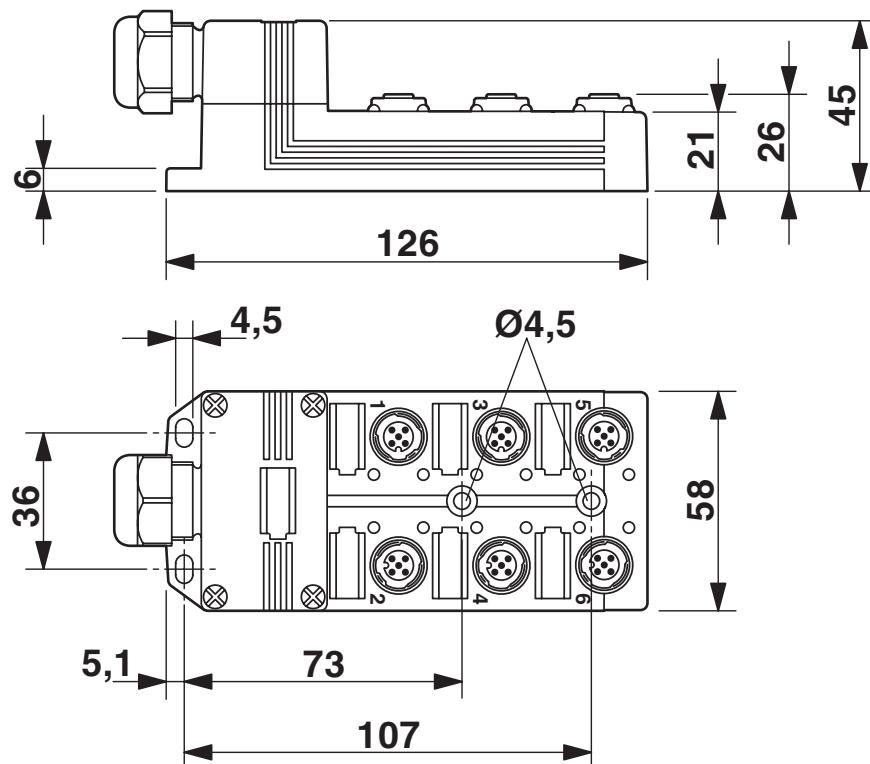
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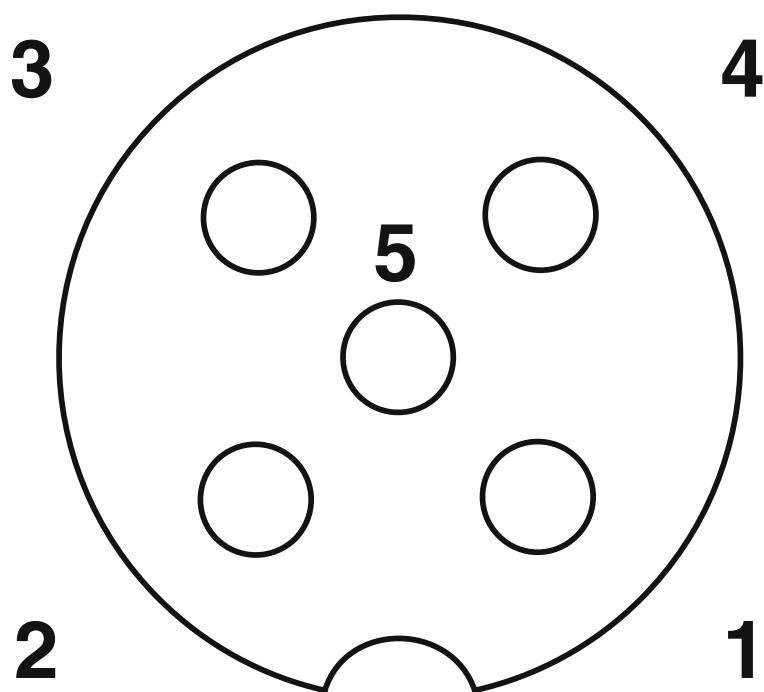


Drawings

Dimensional drawing



Schematic diagram



M12 slot, socket, 5-pos.

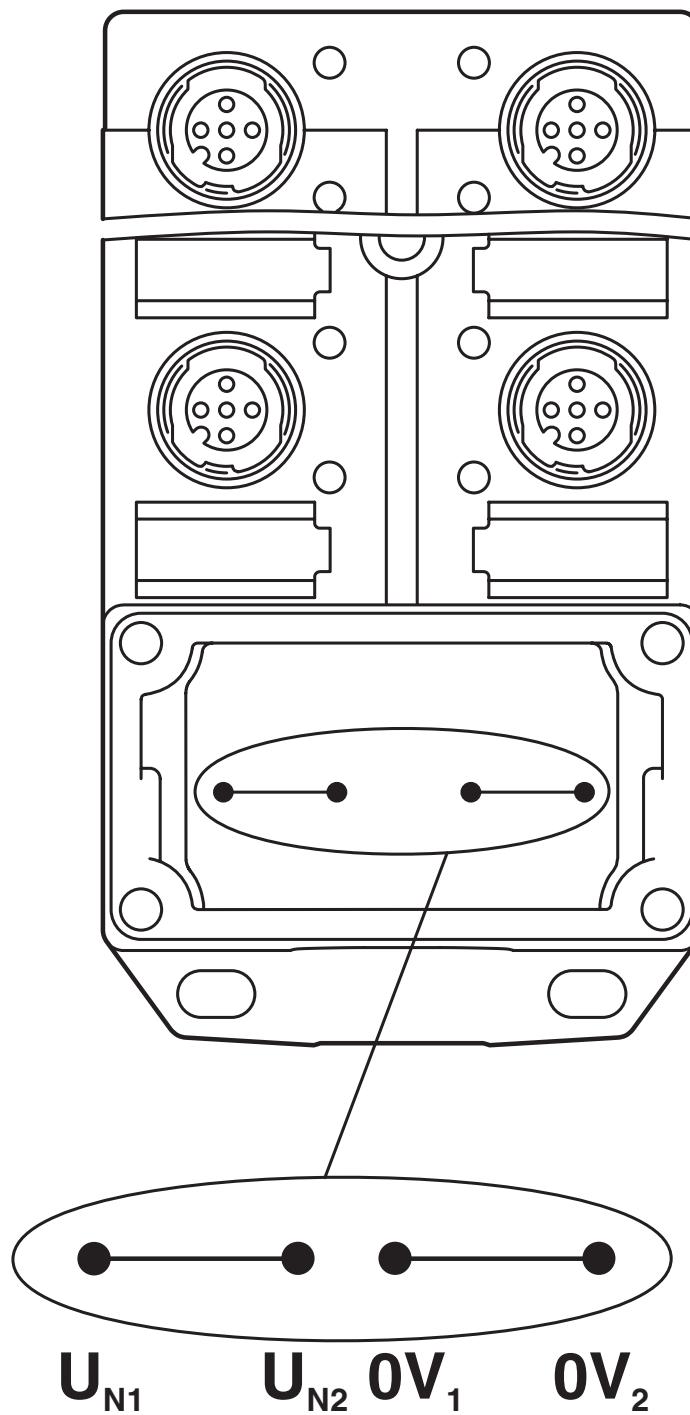
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Schematic diagram



Potential U_{N1} and U_{N2} bridged. Potential assignment: $U_{N1} = U_{N2} = \text{slots 1,2,3,4,5,6}$.

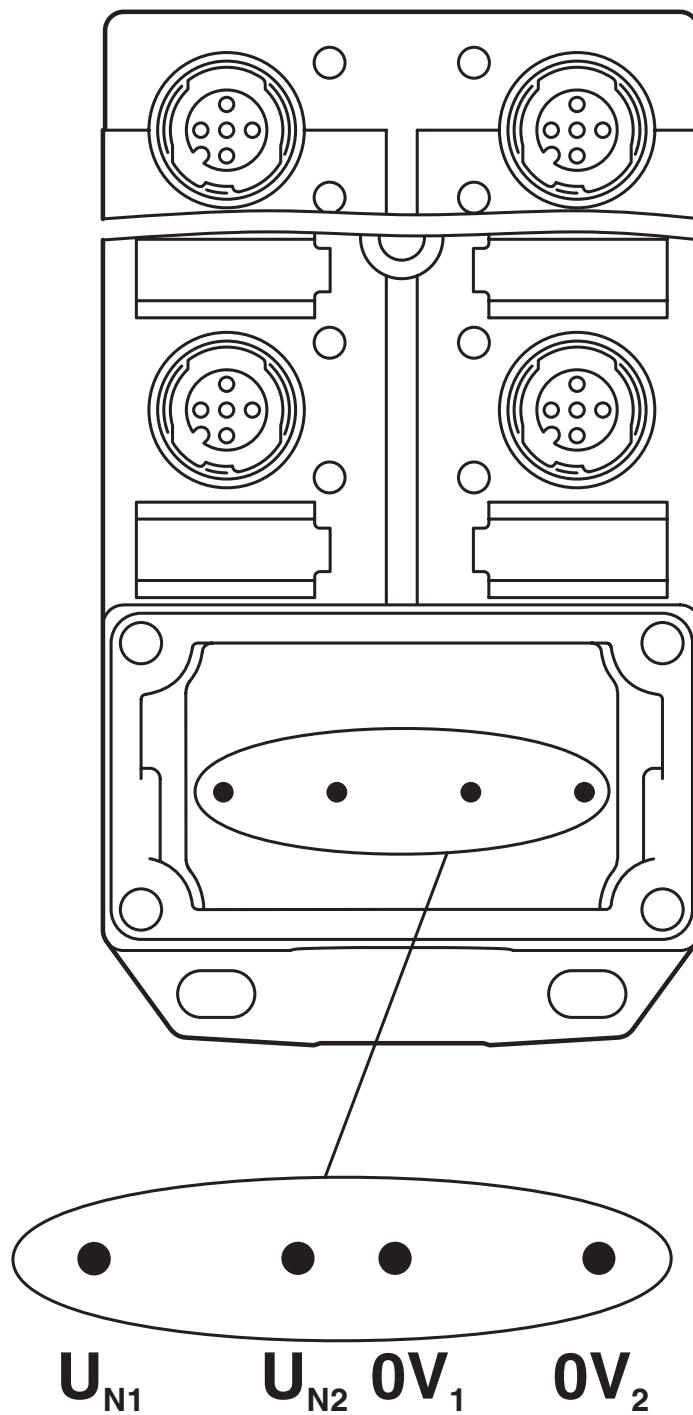
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Schematic diagram



Electrically isolated. Potential assignment: U_{N1} = slots 1,3,5 and U_{N2} = slots 2,4,6.

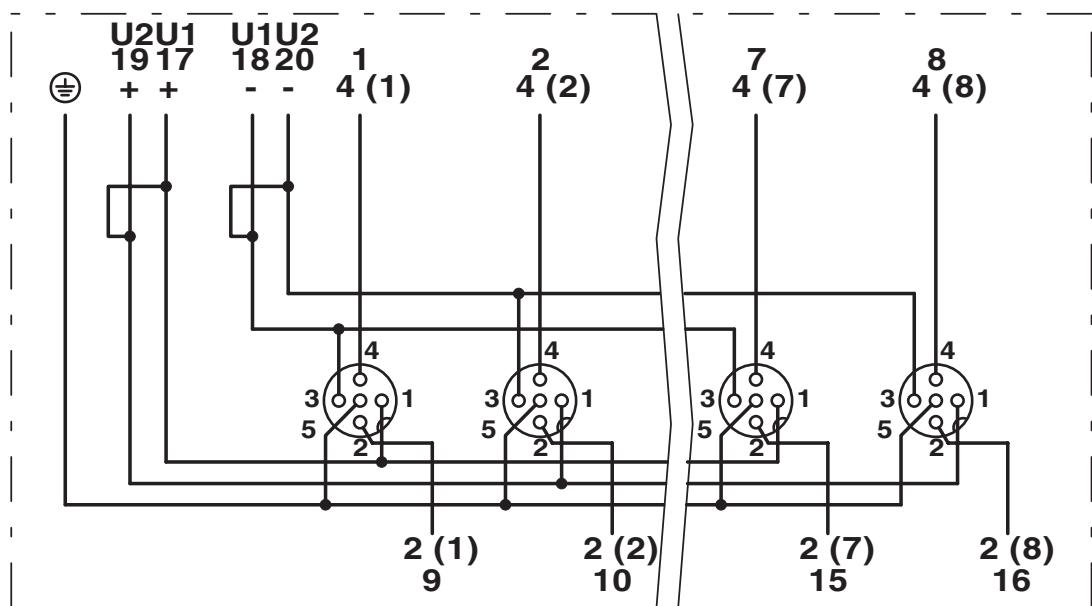
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Circuit diagram



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Approvals

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cUL Recognized		Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine		120 V	3 A	-	-

UL Recognized		Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine		120 V	3 A	-	-

EAC					
Approval ID: RU C-DE.AI30.B.01102					

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Classifications

ECLASS

ECLASS-13.0	27440111
ECLASS-15.0	27440111

ETIM

ETIM 9.0	EC003558
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UNSPSC

UNSPSC 21.0	31251500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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